

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: FOURTH LAKE	Lake Area (ha): 1.01
Town: PITTSBURG	Maximum depth (m): 1.5
County: Coos	Mean depth (m): 0.6
River Basin: Connecticut	Volume (m <sup>3</sup> ): 5500
Latitude: 45°14'50" N	Relative depth: 1.4
Longitude: 71°12'48" W	Shore configuration: 1.12
Elevation (ft): 2600	Areal water load (m/yr): 51.52
Shore length (m): 400	Flushing rate (yr <sup>-1</sup> ): 91.60
Watershed area (ha): 62.2	P retention coeff.: 0.35
% watershed ponded: 0.0	Lake type:

BIOLOGICAL:

		1 February 1995	1 August 1994
DOM. PHYTOPLANKTON (% TOTAL)	#1	SPARSE - NO DOMINANT	SPARSE - NO DOMINANT
	#2		
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			1.42
DOM. ZOOPLANKTON (% TOTAL)	#1	SPARSE - NO DOMINANT	SPARSE - NO DOMINANT
	#2		(NO COUNTS TAKEN)
	#3		
ROTIFERS/LITER		2	
MICROCRUSTACEA/LITER		<1	
ZOOPLANKTON ABUNDANCE (#/L)		2	
VASCULAR PLANT ABUNDANCE			Common
SECCHI DISK TRANSPARENCY (m)			1.5 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)		6.2	9.2
BACTERIA (E. coli, #/100 ml)	#1		
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None  
Hypolimnion volume (m<sup>3</sup>): None  
Anoxic volume (m<sup>3</sup>): None

**CHEMICAL:**Lake: **FOURTH LAKE**Town: **PITTSBURG**

	1 February 1995		1 August 1994		
DEPTH (m)	0.7		0.5		
pH (units)	5.9		5.4		
A.N.C. (Alkalinity)	9.0		1.7		
NITRATE NITROGEN	0.14		0.05		
TOTAL KJELDAHL NITROGEN	0.50		0.48		
TOTAL PHOSPHORUS	0.013		0.018		
CONDUCTIVITY ( $\mu$ mhos/cm)	25.5		23.0		
APPARENT COLOR (cpu)	85				
MAGNESIUM			0.29		
CALCIUM			2.5		
SODIUM					
POTASSIUM			0.20		
CHLORIDE	< 2		< 2		
SULFATE	3		3		
TN : TP	49		29		
CALCITE SATURATION INDEX			5.3		

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 1994**

D.O. S.D. PLANT CHL TOTAL CLASS

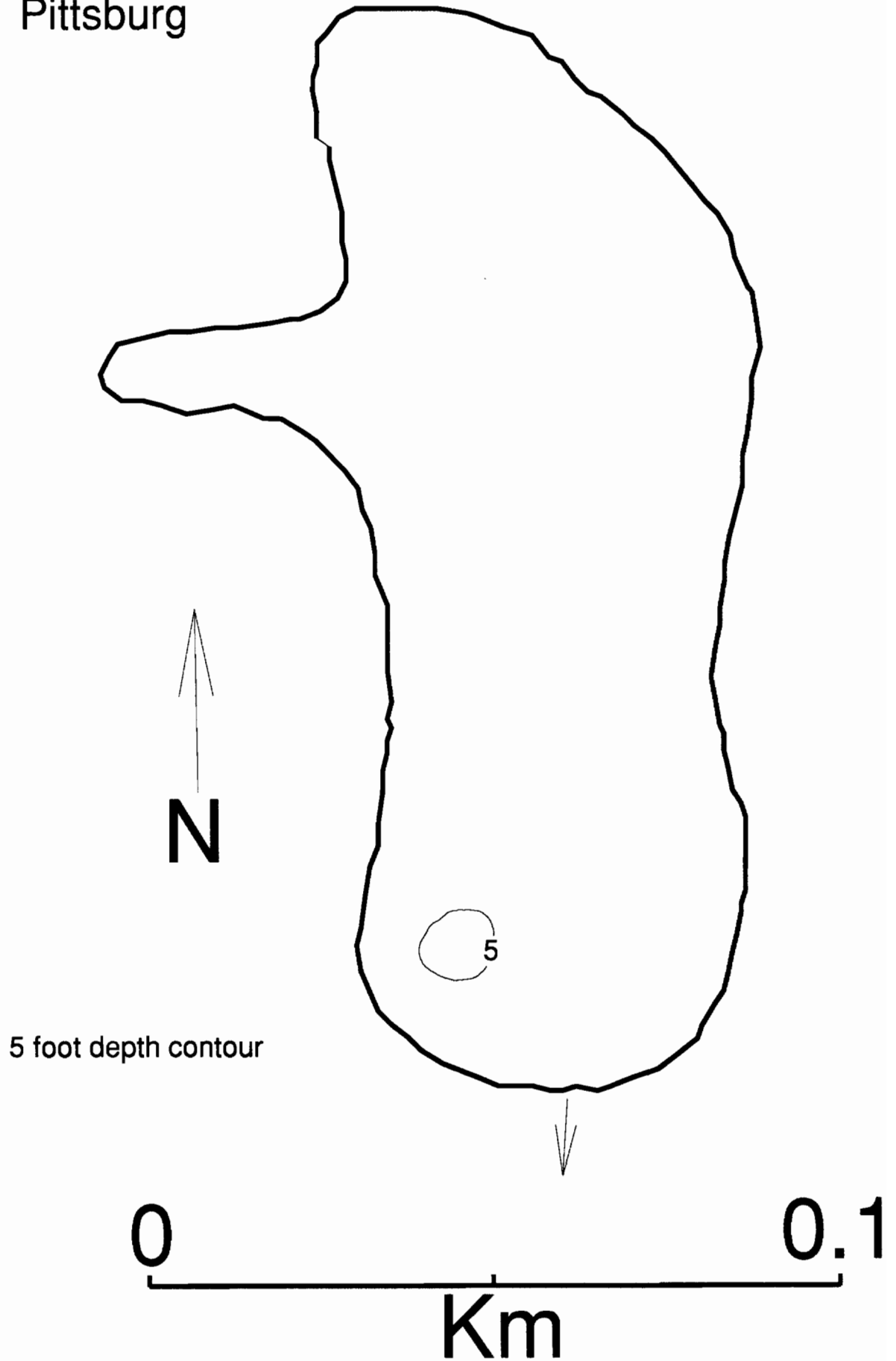
**	3	3	0	6	Meso.
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**COMMENTS:**

1. AKA Fourth Connecticut Lake.
2. This is a small, shallow remote pond surveyed cooperatively with the NH Fish and Game Department. It is located near the Canadian border and forms the headwaters of the Connecticut River. It is essentially a tea-colored beaver pond surrounded by wetland and bog plants.

# Fourth Connecticut Lake

Pittsburg



[illegible]

TOWN: PITTSBURG  
WEATHER: HAZY, HOT & HUMID

[illegible]

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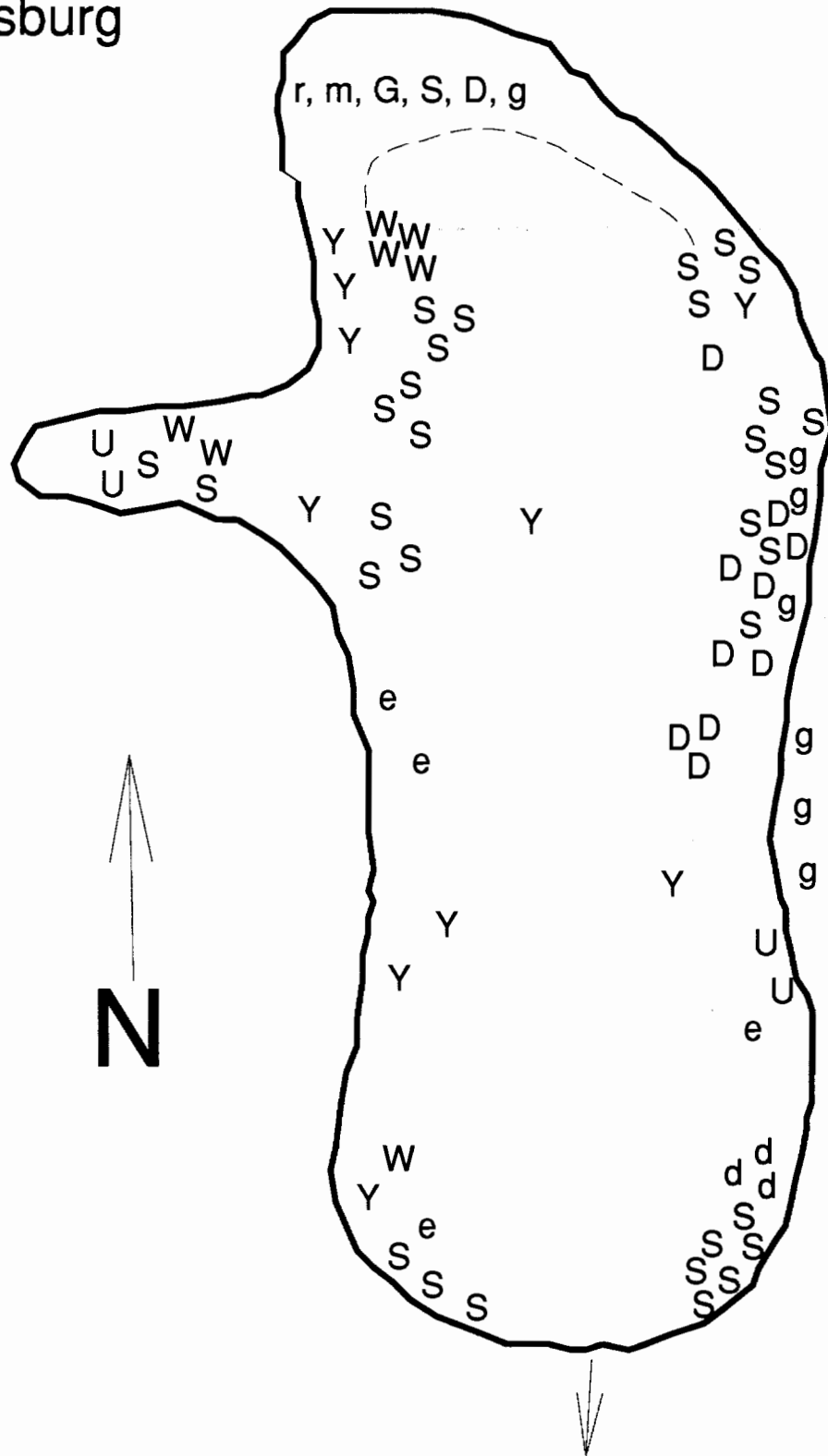
SECCHI DISK (m):    1.5 VOB      COMMENTS:
BOTTOM DEPTH (m):   1.5
TIME: 1400

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**\*Dissolved oxygen values are in mg/L**

# Fourth Connecticut Lake

# Pittsburg



0

# 0.1

Km

[illegible]